

## Banks, Kendra

---

**From:** Poindexter, Gregory  
**Sent:** Tuesday, May 16, 2006 11:04 AM  
**To:** Banks, Kendra  
**Subject:** FW: request for Abstracts.

-----Original Message-----

**From:** Delcotto, Gregory  
**Sent:** Thursday, May 11, 2006 10:04 PM  
**To:** Poindexter, Gregory  
**Subject:** request for Abstracts.

Hey Greg,

I have a case, 10/520841, in which the Applicant has listed two abstracts:

1) Accession No. 3613386 October 23, 1991; E.C. Constable et al; Crossfire Beilstein (XP 002221616)  
*Chem. Celoste.*

2) Accession No. 8321073, March 7, 2000; G. Lowe et al, Crossfire Beilstein (XP.002221615)

The abstracts are not in the case and if you are able to pull them, I can walk over and pick them up on Monday. Please feel free to call me at the number below.

Greg Del Cotto  
Primary Examiner  
Art Unit 1751  
(571) 272-1312

*E 3613386/BRN*

=> e 8321073/brn

```

E1      1      8321071/BRN
E2      1      8321072/BRN
E3      1  --> 8321073/BRN
E4      1      8321074/BRN
E5      1      8321075/BRN
E6      1      8321076/BRN
E7      1      8321077/BRN
E8      1      8321078/BRN
E9      1      8321079/BRN
E10     1      8321080/BRN
E11     1      8321081/BRN
E12     1      8321082/BRN

```

=> s e3

L14 1 8321073/BRN

=> s l14 and lowe g?/au

987 LOWE G?/AU

L15 1 L14 AND LOWE G?/AU

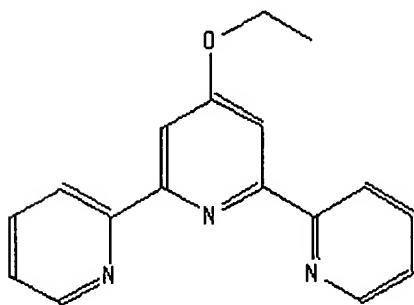
=> d l15 all

L15 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2006 BEILSTEIN MDL on STN

```

Beilstein Records (BRN):      8321073
Chemical Name (CN):          4'-ethoxy-2,2':6',2''-terpyridine
Autonom Name (AUN):          4'-ethoxy-<2,2';6',2''>terpyridine
Molec. Formula (MF):         C17 H15 N3 O
Molecular Weight (MW):       277.32
Lawson Number (LN):          30064, 298
Compound Type (CTYPE):       heterocyclic
Constitution ID (CONSID):     7066912
Tautomer ID (TAUTID):        7839385
Entry Date (DED):            2000/03/07
Update Date (DUPD):          2000/03/07

```



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1

FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
DED	Entry Date	1
DUPD	Update Date	1
MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	3
RXPRO	Substance is Reaction Product	3

#### Melting Point:

Value	Ref.
(MP)	
(Cel)	
=====+	
85 - 86	1

#### Reference(s):

1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweeddale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>, 999 - 1006; BABS-6186508

#### Nuclear Magnetic Resonance:

##### NMR

Description (.KW):	Chemical shifts
Coupling Nuclei (.NUI)	1H-1H
Solvents (.SOL):	CDCl3

##### Reference(s):

1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweeddale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>, 999 - 1006; BABS-6186508

#### Reaction:

##### RX

Reaction ID (.ID):	5212869
Reactant BRN (.RBRN):	<u>3613386</u> , <u>605262</u>
Reactant (.RCT):	4'-chloro-<2,2';6',2''>terpyridine, sodium ethoxide
Product BRN (.PBRN):	<u>8321073</u>
Product (.PRO):	4'-ethoxy-<2,2';6',2''>terpyridine
No. of React. Details (.NVAR):	1

#### Reaction Details:

##### RX

Reaction RID (.RID):	5212869.1
Reaction Classification (.CL):	Preparation
Solvent (.SOL):	ethanol

##### Reference(s):

1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.; Tweeddale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>,

999 - 1006; BABS-6186508

## Reaction:

RX

Reaction ID (.ID): 5192162  
 Reactant BRN (.RBRN): 3613386, 1718733  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 ethanol  
 Product BRN (.PBRN): 8321073, 8318583  
 Product (.PRO): 4'-ethoxy-<2,2';6',2''>terpyridine,  
 4'-methoxy-<2,2';6',2''>terpyridine  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 5192162.1  
 Reaction Classification (.CL): Preparation  
 Reagent (.RGT): FeCl<sub>2</sub>\*4H<sub>2</sub>O, MeOH  
 Time (.TIM): 60 hour(s)  
 Other Conditions (.COND): Heating  
 Reference(s):  
 1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.;  
 Tweedale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>,  
 999 - 1006; BABS-6186508

## Reaction:

RX

Reaction ID (.ID): 5185621  
 Reactant BRN (.RBRN): 3613386, 1098229  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 methanol  
 Product BRN (.PBRN): 8318583, 8321073  
 Product (.PRO): 4'-methoxy-<2,2';6',2''>terpyridine,  
 4'-ethoxy-<2,2';6',2''>terpyridine  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 5185621.1  
 Reaction Classification (.CL): Preparation  
 Reagent (.RGT): FeCl<sub>2</sub>\*4H<sub>2</sub>O, EtOH  
 Time (.TIM): 60 hour(s)  
 Other Conditions (.COND): Heating  
 Reference(s):  
 1. Lowe, Gordon; Droz, Anne Sophie; Vilaivan, Tirayut; Weaver, George W.;  
 Tweedale, Lindsay; et al., J.Med.Chem., CODEN: JMCMAR, 42(6), <1999>,  
 999 - 1006; BABS-6186508

=&gt;

Delotte 9/39

=> d query 112

L10 1 SEA FILE=BEILSTEIN 3613386/BRN

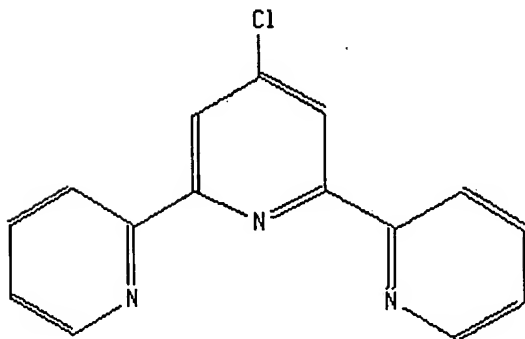
L12 1 SEA FILE=BEILSTEIN L10 AND CONSTABLE E?/AU

```
=> s l10 and constable e?/au (l)1991/py
      836 CONSTABLE E?/AU
      388825 1991/PY
      22 CONSTABLE E?/AU (L)1991/PY
L13      0 L10 AND CONSTABLE E?/AU (L)1991/PY
```

```
=> d l12`all
```

L12 ANSWER 1 OF 1 BEILSTEIN COPYRIGHT 2006 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3613386
Beilstein Pref. RN (BPR):	128143-89-5
CAS Reg. No. (RN):	128143-89-5
Chemical Name (CN):	4'-chloro-2,2':6',2''-terpyridine
Autonom Name (AUN):	4'-chloro-<2,2';6',2''>terpyridine
Molec. Formula (MF):	C15 H10 Cl N3
Molecular Weight (MW):	267.72
Lawson Number (LN):	30032
Compound Type (CTYPE):	heterocyclic
Constitution ID (CONSID):	3231896
Tautomer ID (TAUTID):	3459909
Beilstein Citation (BSO):	6-26
Entry Date (DED):	1991/10/23
Update Date (DUPD):	2006/02/02



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
DED	Entry Date	1
DUPD	Update Date	1
FLU	Fluorescence	1

MP	Melting Point	1
NMR	Nuclear Magnetic Resonance	2
UVS	UV and Visible Spectrum	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
=====	=====	=====
RX	Reaction Documents	76
RXREA	Substance is Reaction Reactant	75
RXPRO	Substance is Reaction Product	1

#### Melting Point:

Value	Solvent	Ref.
(MP)	(.SOL)	
(Cel)		
=====	=====	=====
149 - 152	ethanol	1

#### Reference(s):

1. Constable, Edwin C.; Ward, Michael D., J.Chem.Soc.Dalton Trans., CODEN: JCDTBI(4), <1990>, 1405-1409; BABS-5512756

#### Nuclear Magnetic Resonance:

##### NMR

Description (.KW): Chemical shifts  
 Nucleus (.NUC): 1H  
 Reference(s):  
 1. Schubert, Ulrich S.; Eschbaumer, Christian; Hien, Oliver; Andres, Philip R., Tetrahedron Lett., CODEN: TELEAY, 42(28), <2001>, 4705 - 4708; BABS-6287889

##### NMR

Description (.KW): Chemical shifts  
 Nucleus (.NUC): 1H  
 Solvents (.SOL): CDCl3  
 Reference(s):  
 1. Constable, Edwin C.; Ward, Michael D., J.Chem.Soc.Dalton Trans., CODEN: JCDTBI(4), <1990>, 1405-1409; BABS-5512756

#### UV and Visible Spectrum:

Solvent	Absorption	Ext./Abs.	Ref.	Note
	Maxima	Coeff.		
(.SOL)	(.AM)	(.EAC)		
	(nm)	(I/MOL*CM)		
=====	=====	=====	=====	=====
CH2Cl2	278.5	20892	1	1

#### Reference(s):

1. Mutai, Toshiki; Cheon, Jin-Dong; Arita, Shinpei; Araki, Koji, J.Chem.Soc.Perkin Trans.2, CODEN: JCSPGI(7), <2001>, 1045 - 1050; BABS-6306274

#### Notes(s):

1. Remark: 20 deg C

## Fluorescence:

Descript ion (.KW)	Solvent (.SOL)	Temp. (.T) (Cel)	Ref.
Maxima	Solvent for Maxima: CH <sub>2</sub> Cl <sub>2</sub>	20	1

## Reference(s):

- Mutai, Toshiki; Cheon, Jin-Dong; Arita, Shinpei; Araki, Koji,  
J.Chem.Soc.Perkin Trans.2, CODEN: JCSPGI(7), <2001>, 1045 - 1050;  
BABS-6306274

## Reaction:

RX

Reaction ID (.ID): 2298527  
 Reactant BRN (.RBRN): 3612982  
 Reactant (.RCT): 1'H-<2,2';6',2''>terpyridin-4'-one  
 Product BRN (.PBRN): 3613386  
 Product (.PRO): 4'-chloro-<2,2';6',2''>terpyridine  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 2298527.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 62 percent (BRN=3613386)  
 Reagent (.RGT): PCl<sub>5</sub>, POCl<sub>3</sub>  
 Time (.TIM): 12 hour(s)  
 Other Conditions (.COND): Heating  
 Reference(s):  
 1. Constable, Edwin C.; Ward, Michael D., J.Chem.Soc.Dalton Trans., CODEN:  
 JCDTBI(4), <1990>, 1405-1409; BABS-5512756

## Reaction:

RX

Reaction ID (.ID): 9966706  
 Reactant BRN (.RBRN): 3613386, 505945  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 ethane-1,2-diol  
 Product BRN (.PBRN): 10124689  
 Product (.PRO): 1,2-bis(2,2':6',2''-terpyridin-4'-  
 yloxy)ethane  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9966706.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 54 percent (BRN=10124689)  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 28 hour(s)  
 Temperature (.T): 70 Cel  
 Reference(s):



1. Constable, Edwin C.; Housecroft, Catherine E.; Neuburger, Markus; Schaffner, Silvia; Smith, Christopher B., Dalton Trans., CODEN: DTARAF, SIR(13), <2005>, 2259 - 2267; BABS-6503309

## Reaction:

RX

Reaction ID (.ID): 9943308  
 Reactant BRN (.RBRN): 1638281, 3613386  
 Reactant (.RCT): 3,6,9,12,15-pentaoxa-heptadecane-1,17-diol, 4'-chloro-<2,2';6',2''>terpyridine  
 Product BRN (.PBRN): 10138916  
 Product (.PRO): 1,11-bis(2,2':6',2''-terpyridin-4'-yloxy)-3,6,9,12,15-pentaoxaheptadecane  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9943308.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 70 percent (BRN=10138916)  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 25 hour(s)  
 Temperature (.T): 70 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Neuburger, Markus; Schaffner, Silvia; Smith, Christopher B., Dalton Trans., CODEN: DTARAF, SIR(13), <2005>, 2259 - 2267; BABS-6503309

## Reaction:

RX

Reaction ID (.ID): 9943243  
 Reactant BRN (.RBRN): 1634320, 3613386  
 Reactant (.RCT): 2,2'-(3-oxa-pentane-1,5-diylldioxy)-bis-ethanol, 4'-chloro-<2,2';6',2''>terpyridine  
 Product BRN (.PBRN): 10134778  
 Product (.PRO): 1,11-bis(2,2':6',2''-terpyridin-4'-yloxy)-3,6,9-trioxaundecane  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9943243.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 89 percent (BRN=10134778)  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 42 hour(s)  
 Temperature (.T): 60 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Neuburger, Markus; Schaffner, Silvia; Smith, Christopher B., Dalton Trans., CODEN: DTARAF, SIR(13), <2005>, 2259 - 2267; BABS-6503309

## Reaction:

RX

Reaction ID (.ID): 9654600  
 Reactant BRN (.RBRN): 337165, 3613386  
 Reactant (.RCT): N,N'-(3-aza-pentane-1,5-diyl)-bis-

phthalimide, 4'-chloro-<2,2';  
6',2''>terpyridine  
Product BRN (.PBRN): 9825911  
Product (.PRO): C35H26N6O4  
No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9654600.1  
Reaction Classification (.CL): Preparation  
Temperature (.T): 180 Cel  
Reference(s):  
1. Ruloff, Robert; Koten, Gerard van; Merbach, Andre E., Chem. Commun.,  
CODEN: CHCOFS(7), <2004>, 842 - 843; BABS-6465357

## Reaction:

RX

Reaction ID (.ID): 9648255  
Reactant BRN (.RBRN): 1901343, 3613386  
Reactant (.RCT): (1R)-trans-cyclohexane-1,2-diol,  
4'-chloro-<2,2';6',2''>terpyridine  
Product BRN (.PBRN): 9823389  
Product (.PRO): (1R,2R)-trans-1,2-bis(2,2':6',2''-  
terpyridin-4'-yloxy)cyclohexane  
No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9648255.1  
Reaction Classification (.CL): Multistage  
Yield (.YDT): 12 percent (BRN=9823389)  
Nr. of Stages (.SNR): 2  
Stage 1  
Reagent (.RGT): KOH  
Solvent (.SOL): dimethylsulfoxide  
Time (.TIM): 20 min  
Temperature (.T): 60 Cel  
Stage 2  
Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine  
Stage Reactant BRN (.SRBRN): 3613386  
Solvent (.SOL): dimethylsulfoxide  
Time (.TIM): 3 day(s)  
Temperature (.T): 60 Cel  
Reference(s):  
1. Andres, Philip R.; Schubert, Ulrich S., Synthesis, CODEN: SYNTBF(8),  
<2004>, 1229 - 1238; BABS-6465413

## Reaction:

RX

Reaction ID (.ID): 9647060  
Reactant BRN (.RBRN): 1811931, 3613386  
Reactant (.RCT): hexadecane-1,16-diol, 4'-chloro-<2,2';  
6',2''>terpyridine  
Product BRN (.PBRN): 9831068  
Product (.PRO): 1,6-bis(2,2':6',2''-terpyridin-4'-  
yloxy)hexadecane  
No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9647060.1  
 Reaction Classification (.CL): Multistage  
 Yield (.YDT): 75 percent (BRN=9831068)  
 Nr. of Stages (.SNR): 2  
 Stage 1  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 20 min  
 Temperature (.T): 60 Cel  
 Stage 2  
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine  
 Stage Reactant BRN (.SRBRN): 3613386  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 24 hour(s)  
 Temperature (.T): 60 Cel  
 Reference(s):  
 1. Andres, Philip R.; Schubert, Ulrich S., Synthesis, CODEN: SYNTBF(8),  
 <2004>, 1229 - 1238; BABS-6465413

## Reaction:

RX

Reaction ID (.ID): 9645782  
 Reactant BRN (.RBRN): 1738606, 3613386  
 Reactant (.RCT): decane-1,10-dithiol, 4'-chloro-<2,2';  
 6',2''>terpyridine  
 Product BRN (.PBRN): 9826908  
 Product (.PRO): 1,10-bis(2,2':6',2''-terpyridin-4'-  
 ylsulfanyl)decane  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9645782.1  
 Reaction Classification (.CL): Multistage  
 Yield (.YDT): 46 percent (BRN=9826908)  
 Nr. of Stages (.SNR): 2  
 Stage 1  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 30 min  
 Temperature (.T): 20 Cel  
 Stage 2  
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine  
 Stage Reactant BRN (.SRBRN): 3613386  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 1 hour(s)  
 Temperature (.T): 20 Cel  
 Reference(s):  
 1. Andres, Philip R.; Schubert, Ulrich S., Synthesis, CODEN: SYNTBF(8),  
 <2004>, 1229 - 1238; BABS-6465413

## Reaction:

RX

Reaction ID (.ID): 9645197  
 Reactant BRN (.RBRN): 1732507, 3613386  
 Reactant (.RCT): hexane-1,6-dithiol, 4'-chloro-<2,2';  
 6',2''>terpyridine  
 Product BRN (.PBRN): 9822942  
 Product (.PRO): 1,6-bis(2,2':6',2''-terpyridin-4'-  
 ylsulfanyl)hexane

No. of React. Details (.NVAR): 1

# Reaction Details:

RX

Reaction RID (.RID): 9645197.1  
 Reaction Classification (.CL): Multistage  
 Yield (.YDT): 53 percent (BRN=9822942)  
 Nr. of Stages (.SNR): 2  
 Stage 1  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 30 min  
 Temperature (.T): 70 Cel  
 Stage 2  
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine  
 Stage Reactant BRN (.SRBRN): 3613386  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 4 hour(s)  
 Temperature (.T): 70 Cel  
 Reference(s):  
 1. Andres, Philip R.; Schubert, Ulrich S., Synthesis, CODEN: SYNTBF(8),  
 <2004>, 1229 - 1238; [BABS-6465413](#)

# Reaction:

RX

Reaction ID (.ID): 9641089  
 Reactant BRN (.RBRN): [1340579](#), [3613386](#)  
 Reactant (.RCT): (1S)-trans-cyclohexane-1,2-diol,  
 4'-chloro-<2,2';6',2''>terpyridine  
 Product BRN (.PBRN): [9823390](#)  
 Product (.PRO): (1S,2S)-trans-1,2-bis(2,2':6',2''-  
 terpyridin-4'-yloxy)cyclohexane  
 No. of React. Details (.NVAR): 1

# Reaction Details:

RX

Reaction RID (.RID): 9641089.1  
 Reaction Classification (.CL): Multistage  
 Yield (.YDT): 8 percent (BRN=9823390)  
 Nr. of Stages (.SNR): 2  
 Stage 1  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 20 min  
 Temperature (.T): 60 Cel  
 Stage 2  
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine  
 Stage Reactant BRN (.SRBRN): 3613386  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 3 day(s)  
 Temperature (.T): 60 Cel  
 Reference(s):  
 1. Andres, Philip R.; Schubert, Ulrich S., Synthesis, CODEN: SYNTBF(8),  
 <2004>, 1229 - 1238; [BABS-6465413](#)

# Reaction:

RX

Reaction ID (.ID): 9603607  
 Reactant BRN (.RBRN): [3613386](#), [605631](#)  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,

Product BRN (.PBRN): aniline  
 Product (.PRO): 9712882  
 No. of React. Details (.NVAR): phenyl-<2,2';6',2''>terpyridin-4'-yl-amine  
 1

## Reaction Details:

RX

Reaction RID (.RID): 9603607.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 89 percent (BRN=9712882)  
 Time (.TIM): 5 hour(s)  
 Temperature (.T): 90 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, Synthesis,  
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

## Reaction:

RX

Reaction ID (.ID): 9600311  
 Reactant BRN (.RBRN): 3613386, 507051  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
3,5-dimethyl-aniline  
 Product BRN (.PBRN): 9719033  
 Product (.PRO): (3,5-dimethyl-phenyl)-<2,2';  
6',2''>terpyridin-4'-yl-amine  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9600311.1  
 Reaction Classification (.CL): Preparation  
 Time (.TIM): 4 hour(s)  
 Temperature (.T): 120 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, Synthesis,  
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

## Reaction:

RX

Reaction ID (.ID): 9598139  
 Reactant BRN (.RBRN): 3613386, 474706  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
4,4'-methanediyl-bis-aniline  
 Product BRN (.PBRN): 9745503  
 Product (.PRO): bis<4-(2,2':6',2''-terpyridine-4'-  
yl)aminophenyl>methane  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9598139.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 91 percent (BRN=9745503)  
 Time (.TIM): 8 hour(s)  
 Temperature (.T): 200 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, Synthesis,  
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

## Reaction:

RX

Reaction ID (.ID): 9598138  
 Reactant BRN (.RBRN): 3613386, 474706  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 4,4'-methanediyl-bis-aniline  
 Product BRN (.PBRN): 9731229  
 Product (.PRO): <4-(4-amino-benzyl)-phenyl>-<2,2';  
 6',2''>terpyridin-4'-yl-amine  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9598138.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 93 percent (BRN=9731229)  
 Time (.TIM): 7 hour(s)  
 Temperature (.T): 200 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, Synthesis,  
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

## Reaction:

RX

Reaction ID (.ID): 9597685  
 Reactant BRN (.RBRN): 3613386, 471556  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 4-methoxy-aniline  
 Product BRN (.PBRN): 9717165  
 Product (.PRO): (4-methoxy-phenyl)-<2,2';6',2''>terpyridin-  
 4'-yl-amine  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9597685.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 52 percent (BRN=9717165)  
 Time (.TIM): 5 hour(s)  
 Temperature (.T): 170 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, Synthesis,  
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

## Reaction:

RX

Reaction ID (.ID): 9591142  
 Reactant BRN (.RBRN): 3613386, 2811314  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 tris-(4-amino-phenyl)-methane  
 Product BRN (.PBRN): 9750658  
 Product (.PRO): tris<4-(2,2':6',2''-terpyridin-4'-  
 yl)aminophenyl>methane  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9591142.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 62 percent (BRN=9750658)  
 Time (.TIM): 8 hour(s)

Temperature (.T): 220 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, Synthesis,  
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

## Reaction:

RX

Reaction ID (.ID): 9591051  
 Reactant BRN (.RBRN): 3613386, 2772129  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 4,4',4'',4'''-methanetetrayl-tetra-aniline  
 Product BRN (.PBRN): 9752390  
 Product (.PRO): tetrakis<4-(2,2':6',2''-terpyridin-4'-  
 yl)aminophenyl>methane  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9591051.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 68 percent (BRN=9752390)  
 Time (.TIM): 8 hour(s)  
 Temperature (.T): 220 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, Synthesis,  
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

## Reaction:

RX

Reaction ID (.ID): 9589266  
 Reactant BRN (.RBRN): 3613386, 2158463  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 9,9-bis-(4-amino-phenyl)-fluorene  
 Product BRN (.PBRN): 9749036  
 Product (.PRO): 9,9-bis<4-(2,2':6',2''-terpyridin-4'-  
 yl)aminophenyl>fluorene  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9589266.1  
 Reaction Classification (.CL): Preparation  
 Yield (.YDT): 91 percent (BRN=9749036)  
 Time (.TIM): 8 hour(s)  
 Temperature (.T): 200 Cel  
 Reference(s):  
 1. Constable, Edwin C.; Housecroft, Catherine E.; Tao, Yaqiu, Synthesis,  
 CODEN: SYNTBF(6), <2004>, 869 - 874; BABS-6447850

## Reaction:

RX

Reaction ID (.ID): 9527218  
 Reactant BRN (.RBRN): 3613386, 7648012  
 Reactant (.RCT): 4'-chloro-<2,2';6',2''>terpyridine,  
 2-(2-<7-<2-(2-hydroxy-ethoxy)-ethoxy>-  
 naphthalen-2-yloxy>-ethoxy)-ethanol  
 Product BRN (.PBRN): 9683384  
 Product (.PRO): C48H42N6O6  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9527218.1  
 Reaction Classification (.CL): Preparation  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Reference(s):  
 1. Chow, Hoi Shan; Constable, Edwin C.; Housecroft, Catherine E.;  
 Neuburger, Markus, Dalton Trans., CODEN: DTARAF(24), <2003>, 4568 -  
 4569; BABS-6429748

## Reaction:

RX

Reaction ID (.ID): 9503155  
 Reactant BRN (.RBRN): 969148, 3613386  
 Reactant (.RCT): butan-1-ol, 4'-chloro-<2,2';  
 6',2''>terpyridine  
 Product BRN (.PBRN): 9566118  
 Product (.PRO): 4'-butoxy-<2,2';6',2''>terpyridine  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9503155.1  
 Reaction Classification (.CL): Multistage  
 Yield (.YDT): 46 percent (BRN=9566118)  
 Nr. of Stages (.SNR): 2  
 Stage 1  
 Reagent (.RGT): KOH  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 30 min  
 Temperature (.T): 70 Cel  
 Stage 2  
 Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine  
 Stage Reactant BRN (.SRBRN): 3613386  
 Solvent (.SOL): dimethylsulfoxide  
 Time (.TIM): 16 hour(s)  
 Temperature (.T): 70 Cel  
 Reference(s):  
 1. Andres, Philip R.; Lunkwitz, Ralph; Pabst, Gunther R.; Boehn,  
 Karlheinz; Wouters, Daan; Schmatloch, Stefan; Schubert, Ulrich S.,  
 Eur.J.Org.Chem., CODEN: EJOCFK(19), <2003>, 3769 - 3776; BABS-6418201

## Reaction:

RX

Reaction ID (.ID): 9457780  
 Reactant BRN (.RBRN): 2050815, 3613386  
 Reactant (.RCT): (1R,2R)-1,2-diphenyl-ethane-1,2-diol,  
 4'-chloro-<2,2';6',2''>terpyridine  
 Product BRN (.PBRN): 9580976  
 Product (.PRO): 4'-<(1,2-diphenylvinyl)oxy>-2,2':6',2''-  
 terpyridine  
 No. of React. Details (.NVAR): 1

## Reaction Details:

RX

Reaction RID (.RID): 9457780.1  
 Reaction Classification (.CL): Multistage  
 Yield (.YDT): 15 percent (BRN=9580976)  
 Nr. of Stages (.SNR): 2



## Stage 1

Reagent (.RGT): KOH  
Solvent (.SOL): dimethylsulfoxide  
Time (.TIM): 20 min  
Temperature (.T): 40 Cel

## Stage 2

Stage reactant (.SRCT): 4'-chloro-[2,2';6',2'']terpyridine  
Stage Reactant BRN (.SRBRN): 3613386  
Solvent (.SOL): dimethylsulfoxide  
Time (.TIM): 4 hour(s)  
Temperature (.T): 40 Cel

## Reference(s):

1. Andres, Philip R.; Lunkwitz, Ralph; Pabst, Gunther R.; Boehn, Karlheinz; Wouters, Daan; Schmatloch, Stefan; Schubert, Ulrich S., Eur.J.Org.Chem., CODEN: EJOCFK(19), <2003>, 3769 - 3776; BABS-6418201  
Only first 20 Reaction Documents are displayed. Use DIS FRX to display all Documents. Use DIS FRXPRO or FRXREA to display all Documents where Title Substance is Product or Reactant.

=&gt;